Notice of Allowability	Application No.	Applicant(s)
	09/682,040	CHANDRASEKAR ET AL.
	Examiner	Art Unit
	Sana Al-Hashemi	2164
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>9/20/05</u> .		
2. The allowed claim(s) is/are <u>1-3, 5, 8, 10-11, 14, 28-30, 34-</u>	35, as renumbered 1-13.	
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet, Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal F	Patent Application (PTO-152)
Notice of Praftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3. X Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da	te .
Paper No./Mail Date	7. Li Examinei s'Amendi	nenvoomment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	ent of Reasons for Allowance
	9.	c Roses
	CH Superviso	IARLES RONES DRY PATENT EXAMINER

Application/Control Number: 09/682,040 Page 2

Art Unit: 2164

DETAILED ACTION

- 1. Claims 1-3, 5, 8, 10-11, 14, 28-30, 34-35, as renumbered 1-13 are allowed. Claims 4, 6-7, 9, 12-13, 15-27, 31-33 are canceled.
- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/2/2003 has been entered.
- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Kenneth R. Eiferman on December 14, 2005.

Please cancel claims 18-27, 31-33.

- 5. Please replace claims 1-35 with the following:
- 1. (currently amended) A method <u>implemented at least in part by a computer</u> for refining a user query, the method comprising:

Application/Control Number: 09/682,040 Page 3

Art Unit: 2164

grouping a plurality of terms into a search concept, the search concept being a category that represents a clustering of the terms;

examining a query log to determine to a number of times that each of the terms appears in the query log; and

calculating a relative popularity for the search concept by adding the number of times that each of the terms appears in the query log;

receiving a query from a user; and mapping the user query to the search concept.

- 2. (previously presented) The method of claim 1, further comprising initiating, upon the user's request, a preferred query associated with the search concept to provide improved search results.
- 3. (previously presented) The method of claim 35, wherein the one or more search concepts are popular search concepts and wherein their relative popularity can be used to order the displayed list.
 - 4. canceled.
- 5. (previously presented) The method of claim 2, wherein initiating the preferred search query comprises selecting one of the terms associated with the concept that has appeared a greatest number of times within the query log.
 - 6-7. canceled.
- 8. (original) The method of claim 1, wherein the method is performed by execution of instructions stored on a computer-readable medium.
 - 9. canceled

Application/Control Number: 09/682,040 Page 4

Art Unit: 2164

10. (previously presented) The method of claim 34, further comprising automatically initiating a preferred query associated with at least one of the one or more search concepts to

provide a set of improved search results.

11. (previously presented) The method of claim 10, wherein the set of improved

search results comprises one or more sub-sets of the set of improved search results, each sub-set

associated with one of the search concepts and having a number of search results proportional to

the relative popularity of the search concept.

12-13. canceled.

14. (previously presented) The method of claim 10, wherein automatically initiating

the preferred search query comprises selecting, for each of the one or more search concepts

associated with the preferred query, one of the terms associated with the concept that has

appeared a greatest number of times within the query log.

15-27 canceled.

28. (previously presented) A system comprising:

a search concept that is a category which represents a clustering of a plurality of terms;

and

a server communicatively coupled with a client at which a user generates a query,

wherein the server groups the terms into the search concept, examines a query log to determine a

number of times that each of the terms appears in the query log, calculates a relative popularity

for the search concept by adding the number of times that each of the terms appears in the query

log, and maps the user query to the search concept.

29. (previously presented) The system of claim 28, wherein the server is a search

engine and the client is a web browser.

Art Unit: 2164

30. (previously presented) The system of claim 28, wherein the server and the client are applications.

31-33 canceled.

- 34. (previously presented) The method of claim 1, comprising mapping the user query to one or more search concepts.
- 35. (previously presented) The method of claim 34, further comprising displaying a list of the one or more search concepts.

Allowable Subject Matter

6. The following is an examiner's statement of reasons for allowance: the 37 CFR 1.131 was persuasive. Claims 1-3, 5, 8, 10-11, 14, 28-30, 34-35, as renumbered 1-13 are allowed.

Regarding independent claims 1, and 28, the prior art of record fails to disclose or suggest the claimed provision of: grouping a plurality of terms into a search concept, the search concept being a category that represents a clustering of the terms, examining a query log t determine to a number of times that each of the terms appears in the query log and calculating a relative popularity for the search concept by adding the number of times that each of the terms appears in the query log, in conjunction with remaining claim provisions, is not taught or suggested, or rendered obvious over the prior art of record or that encountered in searching the invention.

Art Unit: 2164

٠.

7. The dependent claims 2-3, 5, 8, 10-11, 29-30, 34-35, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

Comments

The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. In no case may an applicant reply outside the SIX (6) MONTH statutory period or obtain an extension for more than FIVE (5) MONTHS beyond the date for reply set forth in an Office action. A fully responsive reply must be timely filed to avoid abandonment of this application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

As allowable subject matter has been indicated, Applicant's response must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CRF 1.111(b) and MPEP section 707.07(a).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 09/682,040

Art Unit: 2164

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Points of Contact

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sana Al-Hashemi whose telephone number is 571-272-4013.

The examiner can normally be reached on 8Am-4:30Pm. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-

272-4085. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300. Information regarding the status of an application may be obtained

from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions

on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

9197 (toll-free).

Sana Al-Hashemi **Patent Examiner** Technology Center 2100 December 14, 2005

SUPERVISORY PATENT EXAMINER